

What is Claimed Is:

1. A method in an application server, the method comprising:

initiating an instance of an application process configured for executing a prescribed sequence of messaging operations for a first type of incoming message, in response to reception of an initiation request, the initiating step including writing first data into a first data structure that identifies information based on execution of the instance; and

selectively terminating the instance based on detecting, at a prescribed location in the prescribed sequence, a prescribed variable set during execution of the instance and that specifies the prescribed sequence of message operations are not to be performed, the selectively terminating step including terminating execution of the operations subsequent to the prescribed location and removing the first data from the first data structure.

2. The method of claim 1, wherein the initiating step includes executing the prescribed sequence of messaging operations for a voice message as the first type.

3. The method of claim 2, wherein the selectively terminating step includes terminating the instance based on detecting that the prescribed variable, specifying a voice over IP protocol message, specifies a call rejected condition.

4. The method of claim 3, further comprising determining that the prescribed variable identifies that the incoming message does not correspond to the first type.

5. The method of claim 4, wherein the determining step includes identifying the incoming message as a facsimile message.

6. The method of claim 1, wherein the removing step includes deleting a recorded message as the first data from the first data structure.

7. The method of claim 6, wherein the selectively terminating step further includes adding a log entry indicating deletion of the recorded message prior to storage within a subscriber message store, based on detecting that the prescribed variable specifies a detected difference between the first type and a detected type.

8. The method of claim 7, wherein the first type corresponds to a voice message, the method further comprising setting the prescribed variable to not perform the prescribed sequence of message operations based on detecting that the incoming message is a fax message.

9. The method of claim 1, wherein the selectively terminating step includes halting operations for transmission of a message, recorded during execution of the instance, into a subscriber message store.

10. The method of claim 1, further comprising selectively completing execution of the messaging operations, including transmission of a message recorded during execution of the instance, based on an absence of the prescribed variable being set upon the instance reaching the prescribed location in the prescribed sequence.

11. A method in a communications system having a gateway configured for receiving incoming calls and an application server, the method comprising:

sending a request by the gateway to the application server for initiating a messaging session according to a first message type in response to receiving an incoming call;

5 initiating by the application server an instance of an application process configured for executing a prescribed sequence of messaging operations for generation of the messaging session, including writing first data into a first data structure that identifies information based on execution of the instance;

detecting by the gateway that the incoming call corresponds to a second message type incompatible with the first message type and in response sending a reject message to the application server; and

terminating the instance, prior to completion of executing the prescribed sequence of messaging operations by the application server in response to the reject message, including removing the first data from the first data structure.

12. The method of claim 11, wherein the sending step includes sending a second request, concurrently with sending the request for initiating the messaging session according to the first message type, for initiation of a messaging session according to the second message type in response to receiving the incoming call.

13. The method of claim 12, wherein the step of sending the second request includes outputting the second request to a server configured for initiating the messaging session according to the second message type.

14. The method of claim 13, wherein the first message type corresponds to a voice message, and the second message type corresponds to a fax message, the step of sending a reject message including specifying a voice over IP protocol call rejected message.

15. The method of claim 11, wherein the removing step includes deleting a recorded message as the first data from the first data structure prior to storage in a subscriber message store.

16. A communications system comprising:

a gateway configured for receiving an incoming call and in response sending first and second request for initiation of messaging sessions according to respective first and second message types, the gateway configured for generating a reject message in response to detecting that the incoming call corresponds to the second message type incompatible with the first message type; and

an application server configured for initiating, in response to the first request, an instance of an application process configured for executing a prescribed sequence of messaging operations for generation of the messaging session according to the first message type, the application server configured for writing first data into a first data structure that identifies information based on execution of the instance, the application server having an asynchronous event manager configured for terminating the instance including removing the first data from the data structure, prior to completion of executing the prescribed sequence of messaging operations, in response to reception of the reject message.

17. The system of claim 16, further comprising a second server configured for initiating the messaging session according to the second message type in response to reception of the second request, the second server configured for receiving a fax message as the second message type.

18. The system of claim 16, wherein the asynchronous event manager is configured for removing a recorded message as the first data from the data structure, prior to storage in a subscriber message store, in response to reception of the reject message.

19. The system of claim 17, wherein the gateway is configured for generating the reject message to specify a voice over IP protocol message.

20. A computer readable medium having stored thereon sequences of instructions for executing a messaging session, the sequences of instructions including instructions for performing the steps of:

initiating an instance of an application process configured for executing a prescribed sequence of messaging operations for a first type of incoming message, in response to reception of an initiation request, the initiating step including writing first data into a first data structure that identifies information based on execution of the instance; and

selectively terminating the instance based on detecting, at a prescribed location in the prescribed sequence, a prescribed variable set during execution of the instance and that specifies the prescribed sequence of message operations are not to be performed, the selectively terminating step including terminating execution of the operations subsequent to the prescribed location and removing the first data from the first data structure.

21. The medium of claim 20, wherein the initiating step includes executing the prescribed sequence of messaging operations for a voice message as the first type.

22. The medium of claim 21, wherein the selectively terminating step includes terminating the instance based on detecting that the prescribed variable, specifying a voice over IP protocol message, specifies a call rejected condition.

23. The medium of claim 22, further comprising instructions for performing the step of determining that the prescribed variable identifies that the incoming message does not correspond to the first type.

24. The medium of claim 23, wherein the determining step includes identifying the incoming message as a facsimile message.

25. The medium of claim 20, wherein the removing step includes deleting a recorded message as the first data from the first data structure.

26. The medium of claim 25, wherein the selectively terminating step further includes adding a log entry indicating deletion of the recorded message prior to storage within a subscriber message store, based on detecting that the prescribed variable specifies a detected difference between the first type and a detected type.

27. The medium of claim 26, wherein the first type corresponds to a voice message, the method further comprising setting the prescribed variable to not perform the prescribed sequence of message operations based on detecting that the incoming message is a fax message.

28. The medium of claim 20, wherein the selectively terminating step includes halting operations for transmission of a message, recorded during execution of the instance, into a subscriber message store.

29. The medium of claim 20, further comprising instructions for performing the step of selectively completing execution of the messaging operations, including transmission of a message recorded during execution of the instance, based on an absence of the prescribed variable being set upon the instance reaching the prescribed location in the prescribed sequence.

30. A computer readable medium having stored thereon sequences of instructions for executing a messaging session by a gateway configured for receiving incoming calls and an application server, the sequences of instructions including instructions for performing the steps of:

    sending a request by the gateway to the application server for initiating a messaging session according to a first message type in response to receiving an incoming call;

    initiating by the application server an instance of an application process configured for executing a prescribed sequence of messaging operations for generation of the messaging session, including writing first data into a first data structure that identifies information based on execution of the instance;

    detecting by the gateway that the incoming call corresponds to a second message type incompatible with the first message type and in response sending a reject message to the application server; and

    terminating the instance, prior to completion of executing the prescribed sequence of messaging operations by the application server in response to the reject message, including removing the first data from the first data structure.

31. The medium of claim 30, wherein the sending step includes sending a second request, concurrently with sending the request for initiating the messaging session according to the first message type, for initiation of a messaging session according to the second message type in response to receiving the incoming call.

32. The medium of claim 31, wherein the step of sending the second request includes outputting the second request to a server configured for initiating the messaging session according to the second message type.

33. The medium of claim 32, wherein the first message type corresponds to a voice message, and the second message type corresponds to a fax message, the step of sending a reject message including specifying a voice over IP protocol call rejected message.

34. The medium of claim 30, wherein the removing step includes deleting a recorded message as the first data from the first data structure prior to storage in a subscriber message store.

35. A system for executing a messaging application, the system including:

means for initiating an instance of an application process configured for executing a prescribed sequence of messaging operations for a first type of incoming message, in response to reception of an initiation request, the initiating step including writing first data into a first data structure that identifies information based on execution of the instance; and

means for selectively terminating the instance based on detecting, at a prescribed location in the prescribed sequence, a prescribed variable set during execution of the instance and that specifies the prescribed sequence of message operations are not to be performed, the selectively terminating means configured for terminating execution of the operations subsequent to the prescribed location and removing the first data from the first data structure.

36. The system of claim 35, wherein the initiating means is configured for executing the prescribed sequence of messaging operations for a voice message as the first type.

37. The system of claim 36, wherein the selectively terminating means is configured for terminating the instance based on detecting that the prescribed variable, specifying a voice over IP protocol message, specifies a call rejected condition.

38. The system of claim 37, further comprising means for determining that the prescribed variable identifies that the incoming message does not correspond to the first type.

39. The system of claim 38, wherein the determining means is configured for identifying the incoming message as a facsimile message.

40. The system of claim 35, wherein the selectively terminating means is configured for deleting a recorded message as the first data from the first data structure.

41. The system of claim 40, wherein the selectively terminating means is configured for adding a log entry indicating deletion of the recorded message prior to storage within a subscriber message store, based on detecting that the prescribed variable specifies a detected difference between the first type and a detected type.

42. The system of claim 41, wherein the first type corresponds to a voice message, the system further comprising means for setting the prescribed variable to not perform the prescribed sequence of message operations based on detecting that the incoming message is a fax message.

43. The system of claim 35, wherein the selectively terminating means is configured for halting operations for transmission of a message, recorded during execution of the instance, into a subscriber message store.



44. The system of claim 35, further comprising means for selectively completing execution of the messaging operations, including transmission of a message recorded during execution of the instance, based on an absence of the prescribed variable being set upon the instance reaching the prescribed location in the prescribed sequence.

45. An application server comprising:

an interface configured for receiving messages from a gateway configured for receiving incoming calls, the gateway configured for outputting a first request for initiating a messaging session according to a first message type in response to receiving the incoming call, the gateway also configured for outputting a reject message in response to detecting that the incoming call corresponds to a second message type incompatible with the first message type; and

an application runtime environment configured for initiating an instance of an application process, configured for executing a prescribed sequence of messaging operations for the first type of incoming message, in response to reception of the first request, the instance writing first data into a first data structure that identifies information based on execution of the instance, the application runtime environment including an asynchronous event manager configured for selectively terminating the instance based on detecting the reject message by a prescribed location in the prescribed sequence, the asynchronous event manager terminating execution of the operations subsequent to the prescribed location and removing the first data from the first data structure.

46. The server of claim 45, wherein the asynchronous event manager is configured for removing a recorded message as the first data from the data structure, prior to storage thereof in a subscriber message store, in response to reception of the reject message.

47. The server of claim 46, wherein the asynchronous event manager is configured for generating a log entry indicating termination of the instance based on reception of the reject message.

48. The server of claim 46, wherein the first message type corresponds to a voice message and the second message type corresponds to a fax message, the reject message including a voice over IP protocol call rejected message.

48. The server of claim 46, wherein the first message type corresponds to a voice message and the second message type corresponds to a fax message, the reject message including a voice over IP protocol call rejected message.